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to core patent offices
NEWS 6 OCT 13 New CAS Information Use Policies Effective October 17, 2005
NEWS 7 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download
of Caplus documents for use in third-party analysis and
visualization tools
NEWS 8 OCT 27 Free KWIC format extended in full-text databases
NEWS 9 OCT 27 DIOGENES content streamlined
NEWS 10 OCT 27 EPFULL enhanced with additional content
NEWS 11 NOV 14 CA/Caplus - Expanded coverage of German academic research

NEWS EXPRESS NOVEMBER 18 CURRENT VERSION FOR WINDOWS IS V8.01,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005.
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT
<http://download.cas.org/express/v8.0-Discover/>

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NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:17:36 ON 23 NOV 2005

=> file medline, uspatful, dgene, embase, wpids, fsta, biosis		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FULL ESTIMATED COST	0.42	0.42

FILE 'MEDLINE' ENTERED AT 10:18:40 ON 23 NOV 2005

FILE 'USPATFULL' ENTERED AT 10:18:40 ON 23 NOV 2005
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FILE 'BIOSIS' ENTERED AT 10:18:40 ON 23 NOV 2005
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=> s triacylglycerol production
L1 122 TRIACYLGLYCEROL PRODUCTION

=> s l1 and (transgenic organism)
L2 0 L1 AND (TRANSGENIC ORGANISM)

=> s l1 and (uncommon fatty acid)
6 FILES SEARCHED...
L3 0 L1 AND (UNCOMMON FATTY ACID)

=> s l1 and (acyl-CoA-independent reaction)
L4 34 L1 AND (ACYL-COA-INDEPENDENT REACTION)

=> s l1 and yeast
L5 17 L1 AND YEAST

=> s l5 and (S. cerevisiae)
L6 1 L5 AND (S. CEREVISIAE)

=> d l6 ti abs ibib tot

L6 ANSWER 1 OF 1 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
TI Phospholipid diacylglycerol acyltransferase enzymes in the biosynthetic
pathway for **triacylglycerol production** and DNAs
encoding them, useful for producing triacylglycerol, or for transforming
any cell or organism to increase oil content.

AN 2000-665012 [64] WPIDS

AB WO 200060095 A UPAB: 20001219

NOVELTY - An enzyme catalyzing (in an acyl-CoA-independent reaction) the
transfer of fatty acids from phospholipids to diacylglycerol in the
biosynthetic pathway for the production of triacylglycerol, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
following:

(1) a nucleotide sequence encoding the enzyme, or a partial
nucleotide sequence corresponding to the full length nucleotide sequence
that encodes the enzyme;

(2) a gene construct comprising the nucleotide sequence operably
linked to a heterologous nucleic acid;

(3) a vector comprising the nucleotide sequence or the gene
construct;

(4) a transgenic cell or organism containing the nucleotide sequence
and/or the gene construct and/or the vector;

(5) a process for producing triacylglycerol comprising growing the
transgenic cell organism under conditions where the nucleotide sequence is
expressed; and

(6) triacylglycerol produced by the process of (5).
 USE - The enzyme and the nucleotides encoding them are useful for producing triacylglycerol and/or triacylglycerol with uncommon fatty acids. The enzyme and the nucleotide are also useful for transforming any cell or organism in order to be expressed in this cell or organism and result in an altered, preferably increased oil content of this cell or organism.

Dwg.0/6

ACCESSION NUMBER: 2000-665012 [64] WPIDS
 DOC. NO. CPI: C2000-201465
 TITLE: Phospholipid diacylglycerol acyltransferase enzymes in the biosynthetic pathway for **triacylglycerol production** and DNAs encoding them, useful for producing triacylglycerol, or for transforming any cell or organism to increase oil content.
 DERWENT CLASS: C06 D16 D23 E17
 INVENTOR(S): BANAS, A; DAHLQVIST, A; LEDMAN, M; RONNE, H; STAHL, U; STYMNE, S; LENMAN, M
 PATENT ASSIGNEE(S): (BADI) BASF PLANT SCI GMBH
 COUNTRY COUNT: 91
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 2000060095	A2	20001012	(200064)*	EN	97
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL					
OA PT SD SE SL SZ TZ UG ZW					
W: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES					
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS					
LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL					
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
AU 2000038147	A	20001023	(200107)		
NO 2001004716	A	20011128	(200208)		
EP 1165803	A2	20020102	(200209)	EN	
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT					
RO SE SI					
CZ 2001003529	A3	20020213	(200221)		
BR 2000009510	A	20020423	(200235)		
KR 2001112396	A	20011220	(200239)		
SK 2001001387	A3	20020604	(200247)		
HU 2002000480	A2	20020729	(200258)		
JP 2002541783	W	20021210	(200301)		90
CN 1362994	A	20020807	(200304)		
NZ 514227	A	20031219	(200404)		
MX 2001009577	A1	20030701	(200420)		
AU 777031	B2	20040930	(200480)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2000060095	A2	WO 2000-EP2701	20000328
AU 2000038147	A	AU 2000-38147	20000328
NO 2001004716	A	WO 2000-EP2701	20000328
		NO 2001-4716	20010928
EP 1165803	A2	EP 2000-917001	20000328
		WO 2000-EP2701	20000328
CZ 2001003529	A3	WO 2000-EP2701	20000328
		CZ 2001-3529	20000328
BR 2000009510	A	BR 2000-9510	20000328
		WO 2000-EP2701	20000328
KR 2001112396	A	KR 2001-712623	20010929
SK 2001001387	A3	WO 2000-EP2701	20000328
		SK 2001-1387	20000328

HU 2002000480	A2	WO 2000-EP2701	20000328
		HU 2002-480	20000328
JP 2002541783	W	JP 2000-609586	20000328
		WO 2000-EP2701	20000328
CN 1362994	A	CN 2000-805998	20000328
NZ 514227	A	NZ 2000-514227	20000328
		WO 2000-EP2701	20000328
MX 2001009577	A1	WO 2000-EP2701	20000328
		MX 2001-9577	20010924
AU 777031	B2	AU 2000-38147	20000328

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2000038147	A Based on	WO 2000060095
EP 1165803	A2 Based on	WO 2000060095
CZ 2001003529	A3 Based on	WO 2000060095
BR 2000009510	A Based on	WO 2000060095
SK 2001001387	A3 Based on	WO 2000060095
HU 2002000480	A2 Based on	WO 2000060095
JP 2002541783	W Based on	WO 2000060095
NZ 514227	A Based on	WO 2000060095
MX 2001009577	A1 Based on	WO 2000060095
AU 777031	B2 Previous Publ. Based on	AU 2000038147 WO 2000060095

PRIORITY APPLN. INFO: US 2000-180687P 20000207; EP
1999-106656 19990401; EP
1999-111321 19990610

=> d his

(FILE 'HOME' ENTERED AT 10:17:36 ON 23 NOV 2005)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, BIOSIS' ENTERED AT
10:18:40 ON 23 NOV 2005

L1	122 S TRIACYLGLYCEROL PRODUCTION
L2	0 S L1 AND (TRANSGENIC ORGANISM)
L3	0 S L1 AND (UNCOMMON FATTY ACID)
L4	34 S L1 AND (ACYL-COA-INDEPENDENT REACTION)
L5	17 S L1 AND YEAST
L6	1 S L5 AND (S. CEREVISIAE)

=> s 14 and diacylglycerol
L7 34 L4 AND DIACYLGLYCEROL

=> s 17 and variant
L8 0 L7 AND VARIANT

=> e dahlqvist

E1	1	DAHLQUEST/BI
E2	438	DAHLQUIST/BI
E3	101 -->	DAHLQVIST/BI
E4	12	DAHLS/BI
E5	1	DAHLSCHEN/BI
E6	8	DAHLSEID/BI
E7	2	DAHLSGAARD/BI
E8	2	DAHLSJO/BI
E9	1	DAHLSR/BI
E10	62	DAHLST/BI
E11	15	DAHLSTAR/BI

E12 9 DAHLSTEDT/BI

=> s e2 or e3

L9 539 DAHLQUIST/BI OR DAHLQVIST/BI

=> s l9 and l7

L10 0 L9 AND L7

Refine Search

Search Results -

Terms	Documents
L3 and diacylglycerol	9

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
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Derwent World Patents Index
IBM Technical Disclosure Bulletins

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<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L4</u>	L3 and diacylglycerol	9	<u>L4</u>
<u>L3</u>	L2 and l1	26	<u>L3</u>
<u>L2</u>	triacylglycerol production	2738471	<u>L2</u>
<u>L1</u>	dahlqvist.in.	83	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L2 and L1	26

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
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EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L3

Refine Search

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Search History

DATE: Wednesday, November 23, 2005 [Printable Copy](#) [Create Case](#)

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L3</u>	L2 and l1	26	<u>L3</u>
<u>L2</u>	triacylglycerol production	2738471	<u>L2</u>
<u>L1</u>	dahlqvist.in.	83	<u>L1</u>

END OF SEARCH HISTORY

Hit List

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Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 20050170478 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 9

File: PGPB

Aug 4, 2005

PGPUB-DOCUMENT-NUMBER: 20050170478

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050170478 A1

TITLE: Expression of phospholipid:diacylglycerine acyltranssferase (pdat) for the production of plant storage lipids with polyunsaturated fatty acids

PUBLICATION-DATE: August 4, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Stymne, Sten	Svalov		SE
Lenman, Marit	Lund		SE
Stahl, Ulf	Uppsala		SE
Banas, Antoni	Siedlce		PL
Carlsson, Anders	Lund		SE
Wiberg, Eva	Uppsala		SE
Dahlqvist, Anders	Furulund		SE

US-CL-CURRENT: 435/134; 435/193, 800/281

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw Desc](#) [Ima](#)

☐ 2. Document ID: US 20050005326 A1

L4: Entry 2 of 9

File: PGPB

Jan 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050005326

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050005326 A1

TITLE: Use of class enzymes and their encoding genes to increase the oil content in transgenic organisms

PUBLICATION-DATE: January 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Banas, Antoni	Siedlce		PL
Sandager, Line	Copenhagen		DK
Stahl, Ulf	Uppsala		SE
<u>Dahlqvist, Anders</u>	Furulund		SE
Lenman, Marit	Lund		SE
Ronne, Hans	Uppsala		SE

US-CL-CURRENT: 800/281; 435/134, 435/198

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC	Draw Desc	Ima
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☐ 3. Document ID: US 6791008 B1

L4: Entry 3 of 9

File: USPT

Sep 14, 2004

US-PAT-NO: 6791008

DOCUMENT-IDENTIFIER: US 6791008 B1

TITLE: Use of a class of enzymes and their encoding genes to increase the oil content in transgenic organisms

DATE-ISSUED: September 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Banas; Antoni	Siedlce			PL
Sandager; Line	Copenhagen			DK
St.ang.hl; Ulf	Uppsala			SE
<u>Dahlqvist</u> ; Anders	Furulund			SE
Lenman; Marit	Lund			SE
Ronne; Hans	Uppsala			SE
Stymne; Sten	Svalov			SE

US-CL-CURRENT: 800/281; 435/224, 435/471, 435/483, 536/23.1, 536/23.2, 536/23.7, 800/278, 800/298, 800/306

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMC	Draw Desc	Ima
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☐ 4. Document ID: WO 3100044 A1

L4: Entry 4 of 9

File: EPAB

Dec 4, 2003

PUB-NO: WO003100044A1

DOCUMENT-IDENTIFIER: WO 3100044 A1

TITLE: NEW IMPROVED ACYLTRANSFERASE

PUBN-DATE: December 4, 2003

INVENTOR-INFORMATION:

NAME	COUNTRY
DAHLQVIST, ANDERS	SE
GHOSAL, ALOKESH	IN
LINDQVIST, YLVA	SE
BANAS, ANTONI	PL

INT-CL (IPC): C12 N 9/10; A61 K 38/45

EUR-CL (EPC): C12N009/10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMC	Draw Desc	Ima
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☐ 5. Document ID: EP 1099761 A1

L4: Entry 5 of 9

File: EPAB

May 16, 2001

PUB-NO: EP001099761A1

DOCUMENT-IDENTIFIER: EP 1099761 A1

TITLE: Use of a class of enzymes to increase the oil content in transgenic organisms

PUBN-DATE: May 16, 2001

INVENTOR-INFORMATION:

NAME	COUNTRY
BANAS, ANTONI	PL
SANDAGER, LINE	DK
STAHL, ULF	SE
DAHLQVIST, ANDERS	SE
LENMAN, MARIT	SE
RONNE, HANS	SE
STYMNE, STEN	SE

INT-CL (IPC): C12 N 15/54; C12 N 15/82; C12 N 15/81; C12 N 1/18; C12 N 9/10; C11 B 1/00

EUR-CL (EPC): A23D009/00; C11B001/00, C12N009/10 , C12N015/82 , C12P007/64

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WOC	Draw Desc	Ima
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☐ 6. Document ID: EP 1507854 A1, WO 2003100044 A1, AU 2003232714 A1

L4: Entry 6 of 9

File: DWPI

Feb 23, 2005

DERWENT-ACC-NO: 2004-053268

DERWENT-WEEK: 200515

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TITLE: New nucleotide sequence encoding an improved acyltransferase polypeptide, useful for producing structured lipids or fat-soluble molecules, in removing undesirable fat or in modifying lipids in animal or plant raw material

INVENTOR: BANAS, A; DAHLQVIST, A ; GHOSAL, A ; LINDQVIST, Y

PRIORITY-DATA: 2003SE-0000142 (January 20, 2003), 2002SE-0001581 (May 29, 2002), 2002US-383889P (May 29, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>EP 1507854 A1</u>	February 23, 2005	E	000	C12N009/10
<u>WO 2003100044 A1</u>	December 4, 2003	E	091	C12N009/10
<u>AU 2003232714 A1</u>	December 12, 2003		000	C12N009/10

INT-CL (IPC): A61 K 38/45; C12 N 9/10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WOC	Draw Desc	Ima
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☐ 7. Document ID: US 20050170478 A1, WO 2003083100 A1, AU 2003223975 A1, EP 1492872 A1

L4: Entry 7 of 9

File: DWPI

Aug 4, 2005

DERWENT-ACC-NO: 2003-876985

DERWENT-WEEK: 200552

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TITLE: Production of plant storage lipids containing polyunsaturated fatty acids, useful e.g. in foods and pharmaceuticals, using phospholipid:diacylglycer- ol acyltransferase

INVENTOR: BANAS, A; CARLSSON, A ; DAHLQVIST, A ; LENMAN, M ; STAHL, U ; STYMNE, S ; WIBERG, E

PRIORITY-DATA: 2002DE-1014410 (March 30, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20050170478 A1</u>	August 4, 2005		000	C12P007/64
<u>WO 2003083100 A1</u>	October 9, 2003	G	051	C12N009/10
<u>AU 2003223975 A1</u>	October 13, 2003		000	C12N009/10
<u>EP 1492872 A1</u>	January 5, 2005	G	000	C12N009/10

INT-CL (IPC): A01 H 1/00; C12 N 9/10; C12 N 15/67; C12 P 7/64

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw Desc	Ima
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☐ 8. Document ID: US 20050005326 A1, WO 200134814 A1, EP 1099761 A1, AU 200114285 A, BR 200015493 A, EP 1230373 A1, CN 1399682 A, US 6791008 B1

L4: Entry 8 of 9

File: DWPI

Jan 6, 2005

DERWENT-ACC-NO: 2001-329086

DERWENT-WEEK: 200504

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TITLE: Transforming oil-producing organisms with a gene encoding an acyl-CoA:diacylglycerol acyltransferase, useful to generate agricultural crops with higher triacylglycerol content

INVENTOR: BANAS, A; DAHLQVIST, A ; LENMAN, M ; RONNE, H ; SANDAGER, L ; STAHL, U ; STYMNE, S

PRIORITY-DATA: 1999US-164859P (November 12, 1999), 1999EP-0850169 (November 12, 1999), 2000US-0709457 (November 13, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20050005326 A1</u>	January 6, 2005		000	C12P007/64
<u>WO 200134814 A1</u>	May 17, 2001	E	015	C12N015/54
<u>EP 1099761 A1</u>	May 16, 2001	E	000	C12N015/54
<u>AU 200114285 A</u>	June 6, 2001		000	C12N015/54
<u>BR 200015493 A</u>	June 25, 2002		000	C12N015/54
<u>EP 1230373 A1</u>	August 14, 2002	E	000	C12N015/54
<u>CN 1399682 A</u>	February 26, 2003		000	C12N015/54
<u>US 6791008 B1</u>	September 14, 2004		000	A01H005/00

INT-CL (IPC): A01 H 1/00; A01 H 5/00; C11 B 1/00; C12 N 1/18; C12 N 9/10; C12 N 9/20; C12 N 15/52; C12 N 15/54; C12 N 15/81; C12 N 15/82; C12 P 7/64

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Draw Desc	Ima
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☐ 9. Document ID: AU 777031 B2, WO 200060095 A2, AU 200038147 A, NO 200104716 A, EP

1165803 A2, CZ 200103529 A3, BR 200009510 A, KR 2001112396 A, SK 200101387 A3, HU
200200480 A2, JP 2002541783 W, CN 1362994 A, NZ 514227 A, MX 2001009577 A1

L4: Entry 9 of 9

File: DWPI

Sep 30, 2004

DERWENT-ACC-NO: 2000-665012

DERWENT-WEEK: 200480

COPYRIGHT 2005 DERWENT INFORMATION LTD

TITLE: Phospholipid:diacylglycerol acyltransferase enzymes in the biosynthetic pathway
for triacylglycerol production and DNAs encoding them, useful for producing
triacylglycerol, or for transforming any cell or organism to increase oil content

INVENTOR: BANAS, A; DAHLQVIST, A ; LENMAN, M ; RONNE, H ; STAHL, U ; STYMNE, S ; LEDMAN,
M

PRIORITY-DATA: 2000US-180687P (February 7, 2000), 1999EP-0106656 (April 1, 1999), 1999EP-
0111321 (June 10, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>AU 777031 B2</u>	September 30, 2004		000	C12N015/54
<u>WO 200060095 A2</u>	October 12, 2000	E	097	C12N015/54
<u>AU 200038147 A</u>	October 23, 2000		000	C12N015/54
<u>NO 200104716 A</u>	November 28, 2001		000	C12N000/00
<u>EP 1165803 A2</u>	January 2, 2002	E	000	C12N015/54
<u>CZ 200103529 A3</u>	February 13, 2002		000	C12N015/54
<u>BR 200009510 A</u>	April 23, 2002		000	C12N015/54
<u>KR 2001112396 A</u>	December 20, 2001		000	C12N009/10
<u>SK 200101387 A3</u>	June 4, 2002		000	C12N015/54
<u>HU 200200480 A2</u>	July 29, 2002		000	C12N015/54
<u>JP 2002541783 W</u>	December 10, 2002		090	C12N015/09
<u>CN 1362994 A</u>	August 7, 2002		000	C12N015/54
<u>NZ 514227 A</u>	December 19, 2003		000	C12N015/54
<u>MX 2001009577 A1</u>	July 1, 2003		000	A01N027/067

INT-CL (IPC): A01 H 5/00; A01 K 67/027; A01 N 27/00; A01 N 27/067; C12 N 0/00; C12 N
1/16; C12 N 1/19; C12 N 5/10; C12 N 9/10; C12 N 15/09; C12 N 15/54; C12 N 15/81; C12 N
15/82; C12 P 7/64; C12 P 7/64; C12 P 7/64; C12 R 1:645; C12 R 1:91

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	EMC	Draw Desc	Ima
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L3 and diacylglycerol

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